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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,461	10/16/2003	Yoshio Takada	B422-243	8871
26272	7590 11/08/2005		EXAMINER	
COWAN LIEBOWITZ & LATMAN P.C. JOHN J TORRENTE			PERKEY, WILLIAM B	
1133 AVE OF THE AMERICAS			ART UNIT	PAPER NUMBER
NEW YORK, NY 10036			2851	
			DATE MAILED: 11/08/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		<b>V</b>				
	Application No.	Applicant(s)				
	10/687,461 TAKADA, YOSHIO					
Office Action Summary	Examiner	Art Unit				
	William B. Perkey	2851				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI  1.136(a). In no event, however, may a red will apply and will expire SIX (6) MONute, cause the application to become AB	CATION.  eply be timely filed  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u></u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ Th	)⊠ This action is <b>FINAL</b> . 2b)□ This action is non-final.					
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	0. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-4,7-11 and 14-18 is/are pending i	n the application.					
4a) Of the above claim(s) is/are withdr	rawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-4,7-11 and 14-18</u> is/are rejected.						
7) Claim(s) is/are objected to.	/ar alastian requirement					
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers	•					
9)☐ The specification is objected to by the Examin	ner.					
10)⊠ The drawing(s) filed on 16 October 2003 is/a	re: a)⊠ accepted or b)□ o	bjected to by the Examiner.				
Applicant may not request that any objection to th	• , ,	···				
Replacement drawing sheet(s) including the corre						
11) The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	gn priority under 35 U.S.C. {	3 119(a)-(d) or (f).				
1. Certified copies of the priority docume	nts have been received.					
2. Certified copies of the priority docume						
3. Copies of the certified copies of the pr		received in this National Stage				
application from the International Bure  * See the attached detailed Office action for a list		raceived				
See the attached detailed Office action for a lis	or or the certified copies flot	TOOLIVEU.				
Attachment(s)	,, <u> </u>	(DTO 440)				
Notice of References Cited (PTO-892)   Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	8) 5) ☐ Notice of I 6) ☐ Other:	nformal Patent Application (PTO-152)				
Paper No(s)/Mail Date	0)	<del></del> ·				

Application/Control Number: 10/687,461

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### **DETAILED ACTION**

# Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-4, 7-11 and 14-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over the acknowledged Prior Art disclosed in applicants Figs. 6A and 6B in view of Nakagishi (U.S. Patent No. 6,424,068 B2).

Prior Art Fig. 6B discloses a rotor 102; a first bearing 101a; and second bearing 104a. The lever 102 is connected to a not shown light quantity adjusting device. The Fig. 6 B also discloses a Hall element 118 to detect the position of the rotor. Fig. 6B shows the yoke 105 arranged in a position shifted in a thrust direction with respect to the magnet (see the paragraph bridging pages 2 and 3 of applicant's disclosure). A bias in the radial direction is described on page 6 lines 3-6 of applicant's disclosure. The first and second bearings are illustrated as formed in a bobbin formed by cases 101 and 104. Lines 10-15 on page 2 discloses an unillustrated coil wound about the periphery of the bobbin halves 101 and 104. The acknowledged prior art discloses the claimed invention, except for the first bearing having a tapered shape and the fitted and axis portion are in a relation of a line osculation. Nakagishi discloses a motor device for controlling a device that requires high stability. Tapered and semi-spherical bearings, some embodiments with biasing means for the bearings, are disclosed by Nakagishi to obtain high stability of undesired movements. Figs. 23 and 24 show a fitted and axis portion in a relation of

line osculation where the parts 101 and 103 in Fig. 23 come into contact and where the parts 105 and 101 come into contact in Fig. 24. It would have been obvious to one of ordinary skill in the art, at the time of applicant's invention, to substitute improved bearings and axial portions of shapes similar to parts 103, 101, 105, 115 in Figs. 23 and 24 of Nakagishi for the bearings and axial portions of the acknowledged prior art Fig. 6B, in order to obtain the desirable feature of improved stabilization of the light quantity adjusting means.

## Response to Arguments

2. Applicant argues that Nakagishi fails to teach or suggest a bobbin including a first case and a second case or a coil wound around the outer periphery of the bobbin to thereby fix the first case and second case. The examiner agrees. However, the written description of the acknowledged prior art Figs. 6A and 6B discloses that subject matter. Thus, applicant's observation of what Nakagishi fails to show is not persuasive.

Applicant also argues that Nakagishi does not teach or suggest a fitted portion of an axis portion which is fitted into a bearing formed as a tapered shape, nor a fitted portion of a first bearing into which an axis portion is fitted formed into a tapered shape. Applicant asserts that tapered axis portion 103 receives a pin, but is not fitted into a bearing and the axis portion 105 is fitted into a tapered pin, but is not fitted into a tapered bearing. The examiner assumes that applicant refers to Fig. 23 of Nakagishi. It does appear that the bearings in Fig. 23 is in the elements 103 and 104. However, applicant has ignored the teaching of Fig. 24 reversing the location of the parts wherein the bearing 115 is in the part 114. Other Figs., such as Fig. 26, shows both bearing parts 123 and 124 in the stator part as opposed to the rotor part. Nakagishi clearly teaches that the bearing part may be located in either the stator or rotor part. Thus,

applicant's observation of Nakagishi is not found persuasive. Furthermore, the primary reference itself, that is acknowledged prior art Figs. 6 A and 6B teaches the location of the bearings in the bobbin halves. Nakagishi is only relied on for the teaching of various shapes for the bearing and the pin it receives. Nakagishi is not relied on for a teaching to locate the bearings in the bobbin halves.

#### Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### **Telephone Numbers**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William B. Perkey, whose telephone number is (571) 272-2126. The examiner can normally be reached on Monday-Thursday 7:00am-5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

William B. Perkey Primary Examiner Art Unit 2851

WBP:wbp